TRANSLATION PATENT COOPERATION TREATY POT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference G 029 PCT	FOR FURTHER ACTION	See Form PCT/IPEA/416						
International application No.	International filing date (day/month/year)	Priority date (day/month/year)						
PCT/EP2004/010728	24.09.2004	23.10.2003						
International Patent Classification (IPC) or national classification and IPC								
F04D29/42, F24F11/00, F24F11/02, F24F13/20, F04D29/44								
Applicant EBM-PAPST LANDSHUT GMBH								
	1. This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36.							
2. This REPORT consists of a total of	sheets, inc	cluding this cover sheet.						
3. This report is also accompanied by Al	NNEXES, comprising:							
a. (sent to the applicant and	to the International Bureau) a total of	sheets, as follows:						
sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).								
	sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental							
	Sureau only) a total of (indicate type and n	number of electronic carrier(s))						
		, containing a sequence listing and/or tables						
related thereto, in computer readable form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).								
4. This report contains indications relating	ng to the following items:							
Box No. I Basis of the	report							
Box No. II Priority								
Box No. III Non-establis	hment of opinion with regard to novelty, i	inventive step and industrial applicability						
Box No. IV Lack of unit	y of invention							
BON 1.0.	Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement							
Box No. VI Certain docu	iments cited							
Box No. VII Certain defe	cts in the international application							
Box No. VIII Certain observations on the international application								
Date of submission of the demand	of this report							
Name and mailing address of the IPEA/EP	Authorized officer							
Facsimile No	Telephone No							

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.
PCT/EP2004/010728

Box	k No. I	I Basis of the report				
1.		ith regard to the language, this report is based on the international licated under this item.	application in the language in which it was filed, unless otherwise			
	This report is based on translations from the original language into the following language which is the language of a translation furnished for the purposes of: international search (Rule 12.3 and 23.1(b)) publication of the international application (Rule 12.4)					
		international preliminary examination (Rule 55.2 and/or	55.3)			
2.	rece	With regard to the elements of the international application, this report is based on (replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report): the international application as originally filed/furnished the description:				
		pages 1-6	as originally filed/furnished			
		pages* re	eceived by this Authority on			
		pages* ra	eceived by this Authority on			
	\boxtimes	the claims:				
		nos. <u>1</u> –13	as originally filed/furnished			
		nos.*	as amended (together with any statement) under Article 19			
		nos.*	eceived by this Authority on			
		nos.*	eceived by this Authority on			
	\boxtimes	the drawings:				
		sheets 1/3-3/3	as originally filed/furnished			
		sheets* ro	eceived by this Authority on			
		sheets* re	eceived by this Authority on			
		a sequence listing and/or any related table(s) – see Supplement	al Box Relating to Sequence Listing.			
3.		The amendments have resulted in the cancellation of:				
		the description, pages				
		the claims, nos.				
		the drawings, sheets/figs				
		the sequence listing (specify):				
		any table(s) related to sequence listing (specify):				
4.			nts annexed to this report and listed below had not been made, since			
		the description, pages				
		the claims, nos.				
		the drawings, sheets/figs				
		the sequence listing (specify):				
		any table(s) related to sequence listing (specify):				
*	If ite	item 4 applies, some or all of those sheets may be marked "superso	eded."			

International application No.
PCT/EP2004/010728

Box	Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement			
1.	Statement			
	Novelty (N)	Claims	1-13	YES
		Claims		NO
	Inventive step (IS)	Claims	1-13	YES
		Claims		NO
	Industrial applicab	oility (IA) Claims	1-13	YES
		Claims		NO

- 2. Citations and explanations (Rule 70.7)
 - The present report refers to the following documents:

D1: DE 100 17 808 A1 (MOTOREN VENTILATOREN LANDSHUT GMBH) 13 June 2001 (2001-06-13)

2. D1, which is considered the closest prior art, discloses (the references in parentheses relate to said document):

Radial fan (1) with a housing (2) and an impeller mounted therein, an air inlet (4) and an air outlet (5), wherein a pressure chamber is configured between the latter,

from which the subject matter of independent **claim**1 differs in that:

in front of the air inlet a laminar element is arranged which, in a bypass (8) configured therein, comprises a sensor (9) for detecting at least one parameter of the medium flowing through the air inlet (4).

Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive ste	ep or industrial applicability;
citations and explanations supporting such statement	

- 2.1 The subject matter of **claim 1** is therefore novel (PCT Article 33(2)).
- The problem addressed by the present invention can therefore be considered that of indicating a radial fan of the aforementioned kind in which as exact a measurement of quantity as possible is achieved in a cost-effective manner so as to enable subsequent control according to requirements.
- 3.1 The solution to this problem proposed in **claim 1** of the present application involves an inventive step (PCT Article 33(3)) for the following reasons:

arranging the laminar element (7) in front of the air inlet (4) causes the flow to be quasi-laminar, irrespective of the rotation speed and other device parameters. The special placing of the sensor for detecting a parameter of the medium flowing through the air inlet (4) enables predominantly fault-free detection of the desired parameters.

4. Claims 2-13 are dependent on claim 1 and therefore likewise meet the PCT novelty and inventive step requirements.